Franklin County Clean Water Plan

Narrative

Introduction:

The Franklin County Clean Water Plan (referred to in this document as "Plan") identifies several priority initiatives to enable reductions in nutrient loads and improve water quality to the standard of countywide goals (reduce nitrogen loading (N) by approximately 1.3 million lbs. and phosphorus loading (P) by approximately 70,000 lbs.) Each initiative identifies steps that will need to be implemented in order to meet the aforementioned goals of reducing N and P in Franklin County. The entity leading the efforts of accomplishing these goals is the Franklin County Conservation District (FCCD). FCCD has established the initiative "Clean Water for Franklin County", or CWFC for short, to unite all water-related efforts from all parts of the county.

Currently, the county has significant capacity limitations within our agencies and a limited number of existing environmental or conservation organizations that handle water issues on a regular basis. There are a number of partners that can be engaged in this process, with missions focusing on environmental education, stewardship and citizen water monitoring in our waterways. While there are a few of these organizations in the county, their focus tends to be community-based, and there is no countywide organization focused on protecting water resources. CWFC aims to become that countywide initiative which brings together communities and resources, countywide, to accomplish mutually beneficial projects and meet common goals.

Plan implementation and success are dependent on availability of needed funds, trained staff and resources identified in the Plan, as well as recommended regulatory changes and landowners' willingness to participate in the CWFC initiative.

Opportunities:

CWFC will not only strive to meet the established goals, but will engage the neighbors of Franklin County in awareness of the value of our water resources. Communications strategies regarding the initiative emphasize that the quality of local streams and waterways, on which all community members rely, improve with implementation of the plan. County residents will experience a greater quality of life with cleaner water, which is an important goal of the county's comprehensive plan. To reach our county goals, we must increase awareness of the role that all parties play in improving water quality and how the results benefit all members of the county.

CWFC provides the opportunity to reinvigorate the local watershed organizations and help them to coordinate efforts around a common mission. An opportunity exists to grow the initiative and establish a countywide organization to focus on conservation initiatives around water resources.

New to Franklin County, the Master Watershed Stewards Program, and other resource-focused organizations, will be vital partners in contributing to this effort. Our stakeholder group suggested forming a collaborative effort to promote water resource values such as a Water Week, or Watershed Snapshots, which would involve water quality monitoring and education for Franklin County neighbors on how they can support clean water and do their part to help meet the county goals. Other efforts that could help generate interest in the clean water initiative include education and outreach efforts for:

1. Local municipal leaders regarding stormwater management, green infrastructure, etc. and
2. Agricultural communities regarding best management practices and soil health.

To ensure long-term success and maximum impact, it is vital to learn from the other counties as they also develop successful strategies and best management practices. Emphasis should be placed on physical implementation and seeing real results in the goal reductions by landowner adoption of conservation practices. The opportunity exists to incorporate other strategies or planning practices into the implementation process through other planning efforts such as comprehensive planning, open space and greenway planning, long range transportation planning, and model ordinance development. Stormwater management should be evaluated from a more holistic perspective through guidance from the state.

Challenges:

Several factors need to be addressed to reach our county goals, including, but not limited to:

- technical assistance;
- workforce capacity;
- funding capacity; and
- reliable, continuous data collection.

During the development of the Plan there was much discussion on:

- what has been done;
- what needs to be done; and
- how to get it done in order to measure success.

Through implementation of the Plan thus far, there has been much discussion emphasis on the “how”, including, but not limited to:

- increasing capacity of both workforce and funding;
- data collection, management, reporting, and verification; and
- increasing reach of audience, participants, and contributors.

One of the greatest challenges is uncertainty with regard to baseline conditions - and which practices and facilities are currently in place - but are not included in the data used to formulate our planning goalposts. We have proposed measures to account for some current unreported practices, and lack of data management structure for BMPs from agricultural and urban sectors, but these are costly and will take significant time and coordination to establish.

The target goals of reducing Nitrogen and Phosphorus entering local waterways are to be met by 2025. The time frame is very ambitious. There is much work to be done at multiple agency levels before additional practices can be implemented on the ground at the local level at the needed pace.

Legislation may be needed which can be a cumbersome and slow process with an uncertain outcome. Significant funding needs to be identified and put into place where it can make the most significant impact. Finally, a large enough structure will need to be established at the state level to oversee the implementation of all the plans by the 43 counties impacted. While some of these items are in motion, we have much more work to do.

It will take time to hire and train the necessary staff to carry out the Plan. The goals are to be met by 2025. However, the process to actually meet the goals may take a longer time period and the initiative itself will be an ongoing process. BMPs put in place today may not be fully activated/effective for a number of years, and others will age out of the program, needing replacement or re-verification. It is difficult to prescribe formulaic practices for farmers who must respond quickly to changing weather and soil conditions and seasonal fluctuations to meet their optimal agricultural production goals, and for many, keep their living.

Summary:

The following is a summary of the three primary initiatives as outlined in the Franklin County Clean Water Plan. The initiatives include: 1. Programmatic, Policy, and Regulatory Initiatives, 2. Nutrient Reduction Goals & BMP Implementation, and 3. Communication, Education, and Outreach.

- Streamline permitting, funding, and reporting processes;
- Establish regular, consistent, and continuous monitoring for local water quality (and progress);
- Assess existing conditions through data collection for effective & efficient BMP implementation;
- Increase workforce and funding capacity to achieve increased implementation rate;
- Enhance BMP reporting for accurate picture of current conditions and progress of new BMP implementation;
- Develop a communication strategy to reflect parallel goals and benefits of improved water quality;
- Utilize existing resources to engage educational objectives; and
- Develop a focused effort to promote BMPs in different sectors throughout the county.

Conclusion:

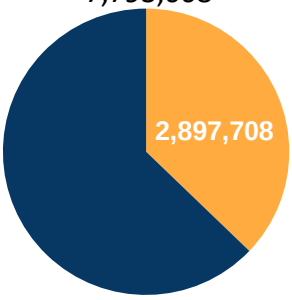
Franklin County anticipates working closely with many agencies and partners as we strive to meet the established water quality goals. The CWFC initiative provides an opportunity to bring stakeholders and partners together not only to focus on water quality but also to embrace and incorporate other environmental and planning matters more inclusively. For this initiative to be successful it will take the involvement of the many partners: local, state, and federal government, the agriculture community, private businesses, and non-profit organizations. An extensive outreach and educational campaign is needed to create an awareness and understanding of the importance of issues related to water quality and soil heath and the role that we all play in meeting these goals. We need change in the regulatory process, program development at the state and local level, staff hired and trained, and consistent, flexible funding and incentive programs created for the increased rate of BMP installation. By all appropriate parties working together in a cohesive manner, these goals become achievable, so does an improved quality of life for all of us who live, work, and play in Franklin County.

Franklin County, Pennsylvania

Current Conditions

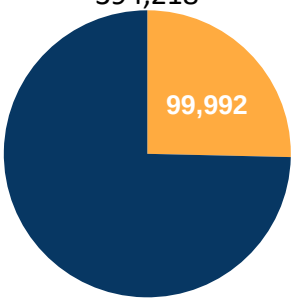
Franklin County is the third highest loading county in Pennsylvania's Chesapeake Bay Watershed. Current loading rates are 7.79M lbs of nitrogen and 394.22K lbs of phosphorous annually. By 2025, Franklin County needs to reduce 2.90M lbs of nitrogen and 99.99K lbs of phosphorous.

Nitrogen (N)
Current Load (lbs): 7,793,008



Planning Target (lbs): 4,895,301
Reduction Goal (lbs): 2,897,708

Phosphorus (P)
Current Load (lbs): 394,218



Planning Target (lbs): 294,226
Reduction Goal (lbs): 99,992

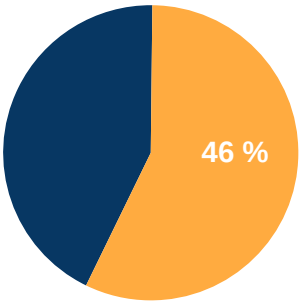
Planning Target (lbs)
Reduction Goal (lbs)

Pollutant Reduction Progress

By 2025, Franklin County needs to reduce 2.90M lbs of nitrogen and 99.99K lbs of phosphorous. Franklin County has developed a plan to reduce 1.33M lbs (46%) of the nitrogen goal and 69.65K lbs (70%) of the phosphorous goal. There is no planning target for sediment, but Franklin County's plan reduced 75.84M lbs of sediment (18%) of the current load.

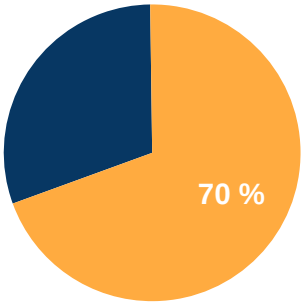
Nutrient Reduction Progress
Remaining Reduction

Nitrogen (N)
Reduction Goal (lbs): 2,897,708



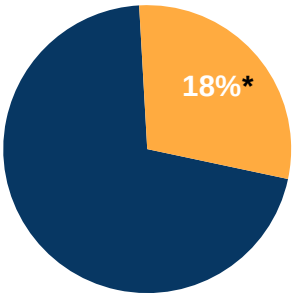
Reduction Progress: 1,326,616 lbs

Phosphorus (P)
Reduction Goal (lbs): 99,992



Reduction Progress: 69,653 lbs

Sediment (TSS)
Current Load (lbs): 411,262,208



Reduction: 75,838,039 lbs

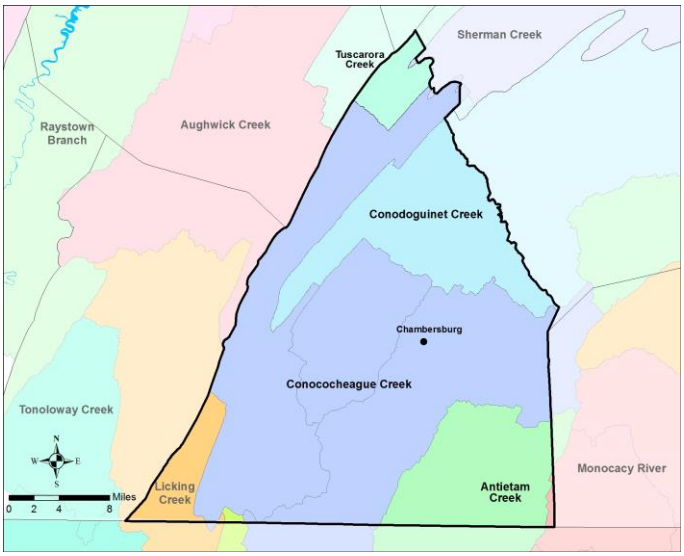
***Percent of Current Load**

Priority Initiative Progress

Franklin County has identified 2 priority initiatives within the planning template: Agriculture and Stormwater. Agriculture has identified practices that result in a reduction of 1.31M lbs of nitrogen and 60.81K lbs of phosphorous. The stormwater sector has identified practices that reduce an additional 8.37K lbs of nitrogen and 2.39K lbs of phosphorous. These priority initiatives result in a total reduction of 1.33M lbs of nitrogen and 69.65K lbs of phosphorous.

Initiative	Nitrogen (lbs.)	Phosphorous (lbs.)
Agriculture	1,311,409	60,806
Stormwater	8,372	2,392
Total Reductions	1,326,616	69,653

FranklinCounty Watershed Map



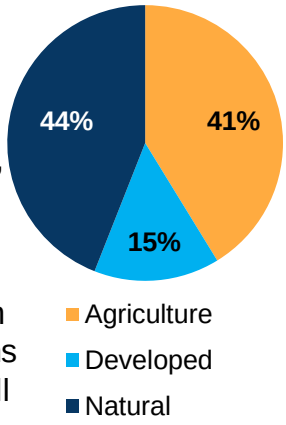
Information About the Watersheds

Franklin County contains five major watersheds: Conococheague Creek, Conodoguinet Creek, Antietam Creek, Licking Creek, and Tuscarora Creek. These watersheds are some of the highest loading watersheds for nitrogen and phosphorous in Pennsylvania's Chesapeake Bay Watershed. However, monitoring shows that conditions for nitrogen have been improving which means nitrogen levels are decreasing. Conditions for phosphorous are varying, meaning some are improving and some are degrading. Of the 1,705 total stream miles in Franklin County, approximately 25% are impaired.

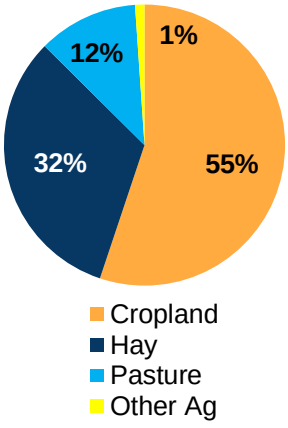
County Land Use:

Franklin County has a total acreage of 494,602 acres. Agricultural land represents 41% of the total land with 203,970 total acres. Developed land represents 15% of the total land with 72,950 total acres. Natural land, which is made up of forests, streams and wetlands, represents the remaining 44% or 217,681 total acres. Cropland makes up a majority of the Agriculture sector with 112,465 acres. The developed sector is mostly Non - Municipal Separate Storm Sewer Systems (MS4s) (78%) or 57,035 acres, and a small portion of MS4 (22%) or 15,915 acres.

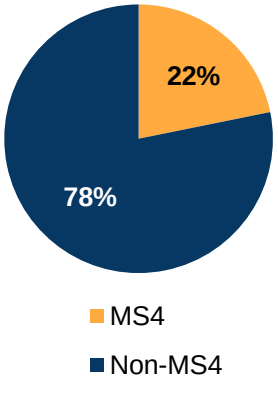
Franklin County:
Total Acres: 494,602



Agriculture:
Total Acres: 203,970



Developed:
Total Acres: 72,950



Local Benefits:

Storm events are the number one way for nutrients and sediment to enter waterways. Increased runoff impacts: flooding, water quality, habitat, etc. Pollutants enter the waterways by two methods: overland runoff or leaching into groundwater.

Flooding affects safety, property, infrastructure, and economics.

Franklin County relies on local water sources to supply drinking water to its residents.

Just like humans, Franklin County's livestock depend on clean water.

Learn more and Get Involved

To get involved with the Watershed Implementation Plan (WIP) please visit: https://bit.ly/2RE7Dzb

Clean water: Great for PA Good for the Bay

Franklin County CAP BMP Targets

Action #	Sector	BMP	Unit	Target Quantity	Cost/Unit	Total Cost	TN lbs Reduced/Unit	TP lbs Reduced/Unit	TSS lbs Reduced/Unit	Notes
1.1	Developed	Bioswale	Acres Treated	68.09	$865.95	$58,962.54	6.99552	0.43174	717.13854	Combination of all PRP's in Franklin County
1.2	Developed	Infiltration Practices w/o Sand, Veg. - A/B soils, no underdrain	Acres Treated	62.64	$1,093.35	$68,487.44	7.99475	0.49019	851.59659	Combination of all PRP's in Franklin County
1.3	Developed	Bioretention/raingardens - C/D soils, underdrain	Acres Treated	363.94	$1,059.40	$385,558.04	2.49806	0.25923	493.03298	Combination of all PRP's in Franklin County
1.4	Developed	Stormwater Performance Standard-Runoff Reduction	Acres Treated	35.12	$1,584.68	$55,653.96	2.82234	0.18193	356.77538	Combination of all PRP's in Franklin County
1.5	Developed	Stormwater Performance Standard-Stormwater Treatment	Acres Treated	340.08	$811.19	$275,869.50	1.65249	0.14234	332.57432	Combination of all PRP's in Franklin County
1.6	Developed	Urban Stream Restoration	Feet	24,502.00	$145.00	$3,552,790.00	0.05716	0.03446	100.49342	Combination of all PRP's in Franklin County
1.7	Developed	Forest Buffer	Acres in Buffers	164.11	$153.28	$25,154.78	9.5376	0.82537	790.8375	Combination of all PRP's in Franklin County
1.8	Developed	Permeable Pavement w/o Sand, Veg. - C/D soils, underdrain	Acres Treated	0.31	$14,214.02	$4,406.35	0.99923	0.11501	493.03298	Combination of all PRP's in Franklin County
1.9	Developed	Street Sweeping	Miles	5.52	$674.53	$3,723.41				Combination of all PRP's in Franklin County
1.10.1	Developed	Wetland Restoration (Enhancement)	Acres	65.00	$269.42	$17,512.30	3.00336	0.14726	63.75654	Combination of all PRP's in Franklin County
1.10.2	Developed	Wetland Restoration (Rehabilitation)	Acres		$453.41	$29,471.65				
1.11	Developed	Tree Planting - Canopy	Acres	160.00	$107.78	$17,244.80	1.33413	0.10465	168.02843	Combination of all PRP's in Franklin County
2.1	Agriculture	Tillage Management-Conservation	Acres	29,000.00	-	-	2.78	0.33	545.37	
2.2	Agriculture	Tillage Management-High Residue	Acres	57,000.00	-	-	-	-	-	
2.3	Agriculture	Tillage Management - Low Residue	Acres	10,000.00	-	-	-	-	-	
2.4	Agriculture	Cover Crop Traditional Wheat Late Other	Acres	32,000.00	$33.33	$1,066,560.00	2.84	0.00	0.00	
2.5	Agriculture	Cover Crop Traditional with Fall Nutrients Wheat Late Other	Acres	16,000.00	$66.67	$1,066,720.00	2.01	0.00	0.00	
2.6	Agriculture	Cover Crop Commodity Normal	Acres	0.00	-	-	2.12	0.00	0.00	
2.7	Agriculture	Precision Intensive Rotational/Prescribed Grazing	Acres	6,500.00	$16.00	$104,000.00	1.57	0.44	0.25	
2.8	Agriculture	Soil Conservation and Water Quality Plans	Acres	184,000.00	$1.94	$356,960.00	1.20	0.06	156.16	
2.9	Agriculture	Nutrient Management Core N	Acres	161,400.00	$1,662.00	$268,246,800.00	1.99	0.01	0.00	
2.10	Agriculture	Nutrient Management Core P	Acres	161,400.00	$24.91	$4,020,474.00	0.00	0.05	0.00	
2.11	Agriculture	Nutrient Management N Timing	Acres	17,000.00	$33.74	$573,580.00	1.16	0.00	0.00	
2.12	Agriculture	Nutrient Management N Rate	Acres	17,000.00	$38.98	$662,660.00	1.34	0.00	0.00	
2.13	Agriculture	Nutrient Management P Timing	Acres	17,000.00	$42.03	$714,510.00	0.00	0.03	0.00	
2.14	Agriculture	Nutrient Management P Rate	Acres	1,700.00	$47.27	$80,359.00	0.00	0.02	0.00	
2.15	Animals	Manure Transport	Dry Tons	10,000.00	$27.53	$275,300.00	0.61	0.56	0.00	
2.16	Agriculture	Non Urban Stream Restoration	Feet	12,000.00	$5.10	$61,200.00	0.06	0.03	100.49	
2.17	Agriculture	Forest Buffer-Streamside with Exclusion Fencing	Acres in Buffers	50.00	$709.73	$35,486.50	241.51	45.07	32,585.62	
2.18	Agriculture	Forest Buffer-Narrow with Exclusion Fencing	Acres in Buffers	50.00	-	-	66.26	12.66	9,286.08	
2.19	Agriculture	Grass Buffer-Streamside with Exclusion Fencing	Acres in Buffers	50.00	-	-	231.33	44.74	32,612.32	
2.20	Agriculture	Grass Buffer-Narrow with Exclusion Fencing	Acres in Buffers	50.00	-	-	63.89	12.34	9,312.68	
2.21	Agriculture	Forest Buffer	Acres in Buffers	100.00	-	-	51.58	0.59	1,485.83	
2.22	Agriculture	Forest Buffer - Narrow	Acres in Buffers	50.00	$157.35	$7,867.50	19.76	0.23	796.98	
2.23	Agriculture	Grass Buffer	Acres in Buffers	100.00	-	-	39.99	0.25	1,524.92	
2.24	Agriculture	Grass Buffer - Narrow	Acres in Buffers	50.00	$56.95	$2,847.50	17.69	-0.11	835.69	
2.25	Agriculture	Wetland Restoration - Floodplain	Acres	50.00	$96.58	$4,829.00	40.30	0.79	1,344.07	
2.26	Agriculture	Off Stream Watering Without Fencing	Acres	8,500.00	$29.53	$251,005.00	0.78	0.15	0.10	
2.27	Agriculture	Land Retirement to Ag Open Space	Acres	500.00	$168.87	$84,435.00	16.28	-0.11	747.43	
2.28	Animals	Animal Waste Management System	Animal Units	30,000.00	$121.61	$3,648,300.00	5.03	0.11	0.00	
2.29	Agriculture	Tree Planting	Acres	40.00	$115.18	$4,607.20	18.40	0.23	711.07	
2.30	Agriculture	Barnyard Runoff Control	Acres	134.00	$56,746.00	$7,603,964.00	367.40	10.65	1,411.34	
2.32	Animals	Dairy Precision Feeding and/or Forage Management	Animal Units	3,000.00	($9.95)	($29,850.00)	3.11	0.23	72.06	

Franklin County Clean Water Plan - Progress and Milestones 2022

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier **BOLD –** item is completed ***Italics –*** new progress with 2022 update

Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2021 + 2022) *add new 2022 progress above the existing 2021 progress. Date each entry	Reason for Change to Action Item (2022-2023 milestone period)
							Technical	Financial	Technical	Financial		
Priority Initiative 1: Programmatic, Policy and Regulatory Initiatives												
1.1*	**Organizational Structure –** **Integrate Chesapeake Bay planning efforts with county planning through dedicated personnel available to support local goal implementation and address capacity issues on a county-by-county basis.**	***Potential Targets*** • **Organizational chart for all participating entities with roles and responsibilities developed. Share with county partners** • **Hire state level staff** • **Necessary information identified for exchange reporting criteria** • Schedule for reports established in data verification process manual	***Potential Partners*** • EPA • DEP • Susquehanna RBC • Potomac RBC • Counties & Municipalities	Chesapeake Bay region	2022	•**Integrated staff should be at DEP level but with frequent interaction in collaboration with county staff.** •**2-3 staff at DEP for administration of program, and at least 1 dedicated staff person at Franklin County** •Program needs to recognize and provide support for plan implementation for counties' unique needs •***Additional staff needed to address capacity issues such as data reporting/verification,*** plan writing at CDs, program administration specialists, etc.	TBD – Currently None	TBD – Currently None	**Staff will need to be hired to lead and coordinate the WIP effort.** **Source: State/County part to be determined**	**State and local funds sufficient for staffing.** **Suggested source: State**/Local	**August 2022 Update:** While full time additional staff for BMP verification has not been provided, a pilot was deployed among all counties for BMP verification. Our county chose to use the pilot program funding for increasing capacity for data reporting/existing BMP verification/reverification in the form of 2 part-time, retired ag professionals, contracted through Capital RC&D. We do not consider item 1.1 to be fully completed, but do recognize & report progress on this front in the form of the additional funding with option to use for BMP verification capacity building. **August 2021 Update:** No additional positions have been staffed since the 2020 update, but Franklin County took some time to discuss additional program support necessary for successful implementation. This additional recommendation is outlined in the update (Potential Recommendations column).	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item was originally a broad idea. Since this item was created, CBO staff and coordinators have been hired & facilitating CAP effort. This item has been updated to look further into additional needs identified through implementation process in 2022-2023. Implementation efforts have increased workload at the county level. With more projects to complete on a quicker timeline, additional assistance is needed to facilitate these efforts and the capacity of this new work.

1.2	**Program Data Management & Project Planning –** **Create a central county location for data collection and reporting for all sectors.** Database would include data and project planning tools for related items such as: • Existing/planned BMPs • County conservation & ag Plans • Project permits • Grant applications • 4R practices • Stormwater management practices and facilities in local municipalities • All additional items related to the above	***Potential Targets*** • **Program Creation** • Stakeholder meeting results (such as pledge of program use) • # of training attendees • # of organizations with accounts • # of county users • Acres recorded • BMP goal progress • **End Goal:** Functioning smoothly as "One-stop Shop" for project planning & management (Comprehensive, up-to-date database)	***Potential Partners*** **For Creation:** • CWFC • County • Chesapeake Commons • GIS Professionals • etc. **For Data Input:** • CWFC • FCCD • Local municipalities • Penn State Extension • Watershed Stewards • Capital RC&D • South Mountain Partnership (SMP) • Private partners • Other organizations involved in Clean Water projects • etc. **For Maintenance:** • Data creators • Program creator • IT/GIS professional • CWFC data team	Countywide	2023-2024	• Workforce capacity • Technical assistance capacity • Reluctance of needed partners to adopt new program • Information & data sharing discretion lies with 22 individual municipalities, private partners, & agencies (No countywide guidance or regulation on mandatory adoption or data sharing) • Right-To-Know • Data consistency • Practices may vary between local municipalities – need program to be highly customizable	Practice Keeper FieldDoc COG & events to speak to all municipalities in one place Founder of FieldDoc is local for technical assistance needs	FieldDoc (Free to all, no license needed) Potentially - Technical Assistance grants No other financial resources available	Personnel dedicated to data management and verification Technical assistance for organizations with user accounts Training for organizations who wish to report projects Data share agreements	Funds for technical resources needed Potential funds for initial incentives to obtain new users	**August 2022 Update:** This item has been marked red as it has been <u>on hold</u>. While progress has been made on 1.1 in the form of increasing capacity for BMP Verification, Franklin County still feels a need for more capacity related to database management. It would be beneficial to our county to have at least one full time position dedicated to management of ALL project data in one central database for all county partners. The concept exists and is developed, but capacity to implement prevents further progress. **August 2021 Update:** Past/Present reporting strategy - FCCD reports BMPs to DEP through use of FieldDoc, PracticeKeeper, and other government permits/programs collected in the BMP Data Warehouse at the state level. This item was reevaluated – new goals regarding this item described in columns to the left.	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item was originally a broad idea. Item has been updated to reflect opportunities that now exist and can be utilized to move forward in 2022-2023 with tangible and identified partners, targets, resources available, and resources still needed.

1.3.a	**Capacity Building – *Workforce (BMP Data Collection & Verification)*** • ***Establish program with staff dedicated to full** time **BMP data collection and verification.*** • Use technology such as GIS analysis, aerial imagery, and remote sensing to determine unreported BMPs. • ***Implement a survey process for capturing current agricultural best management practices that are unreported as part of the data collection method.*** • ***Engage a team of BMP experts from applicable sectors to verify BMPs through site visits coinciding with on-site BMP survey.***	***Potential Targets*** • ***Pilot program of Tier 1/2 CAP Pilot Counties with partnering organization who will house & administer BMP Data Collection program and associated staff/equipment*** • Expand survey to cover other CAP counties in partner region • ***Deliverables needed from Technical Assistance partners:*** 1. ***Additional potential partners & stakeholders*** 2. ***Framework & organizational structure*** 3. ***Roles & responsibilities*** 4. ***Draft agreements and contracts*** 5. ***Draft job announcement templates***	***Potential Partners*** **For Program & Survey Creation:** • DEP • UMD EFC • **Capital RC&D** • Penn State Extension **For Spatial Analysis & Reporting:** • **Contracted consultants** • Universities • CLUS **For On-site Collection & Verification:** • **Retired BMP professionals (both AG/SW)** • 4R Alliance • The Nature Conservancy • Penn State Extension • Farm Bureau • Contracted consultants • FFA • 4H **For Education & Outreach** • SMP • Partners listed above	• Regional program • Begin with Tier 1/2 Pilot Counties • Expand to full Capital RC&D Region	• ***Establish pilot program & structure – 2022*** • ***Begin spatial analysis – 2022*** • ***Begin on-site surveying & verification 2022-2023*** • Reporting – Continuous (Coinciding with survey & verification timeline)	• Participation • Resources & funding • Appropriate staff • Seasonality for BMPs involving vegetation • IRB standards & acceptance by CAST model • Coordination between agencies • Right-to-know	Existing partnerships Existing survey sufficient for BMP verification standards (PSU) Partner with the capacity to administer the program and “house” the staff	TBD – Currently None	Technical assistance (EFC or other partner) for program framework & organization-al details Data collection staff access to Practice Keeper and FieldDoc for reporting Up-to-date aerial imagery Technology & software for spatial analysis and reporting Sufficient staffing Data/Info sharing cooperation agreements (Release of records forms for landowners utilizing other agency programs with confidential-ity restrictions)	TBD – Flexible & sufficient funding	**August 2022 Update:** FCCD was awarded the BMP Verification pilot program funding through the CBO for a total of $30,000. FCCD decided to pilot a new BMP Verification program with the funding in partnership with Capital RC&D (CRCD). CRCD hired two part-time, retired agriculture professionals/farmers for FCCD to contract for a “Boots on the Ground” verification effort. One of our two contracted BMP Verification Specialists (BVS) has been working with local farmers since January 2022 (the second hire since May 2022) to locate existing, unrecorded BMPs for verification and addition to PK and expired, still-functional BMPs for reverification and addition to PK. To date, the program has led to: - 32 on-site farm visits - 142 BMPs verified of only 59 anticipated across the 32 farms - 12 new future BMP implementation opportunities which have been referred to FCCD staff - Approx. 2,300 new acres of Ag E&S plans added to PK - Approx. 357 BMP instances added to the BMP Module in PK Next steps for this program: - Finish out pilot program (spend remaining funds of the $30,000 allotment) and assess results of program from start to finish - Lessons learned/changes to make in the future - Await award announcements from other funding programs to determine future funding available for future of BMP Verification efforts in FCo - Deploy improved, larger scale pilot of BMP Verification program based on lessons learned in first pilot.	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item was originally (1.3) a broad idea only regarding a survey pilot. Item has been updated (1.3.a) to reflect a more holistic approach, using newly identified opportunities that can be utilized to move forward in 2022-2023 with tangible and identified partners, targets, resources available, and resources still needed.

											August 2021 Update: Conversations have begun with surveying partners (PSU Extension & Capital RC&D) in combination with local landowners to determine a more inclusive survey & verification process, that would limit the number or surveys landowners need to complete.	

1.3.b	**Capacity Building – *Funding Solutions*** ***Evaluate options to leverage private sector funding.***	***Potential Targets*** • ***Perform (or contract) study to leverage private sector funding.*** • ***Deliverables needed from Technical Assistance Partners:*** 1. ***Additional potential partners & stakeholders*** 2. ***Framework & organizational structure*** 3. *Roles & responsibilities* 4. *Draft agreements and contracts*	***Potential Partners*** • **UMD EFC** • Franklin Co. Community Foundation • Franklin Co. Visitors Bureau • Local Chambers of Commerce • Rotary Clubs • Lions Clubs • Owls Clubs • Kiwanis • Girl & Boy Scouts of America	Compare County vs. Regional	• ***Perform study – 2022*** • ***Stakeholder meetings regarding study results - 2022*** • ***Implement study recommendation beginning 2023***	• Cash flow & fundraising • Participation& contributions • Outreach & awareness of need for funding • Administration & legal	Existing partnerships Experts to perform study	TBD – Currently None	Experts to perform study	Capital and reliable, consistent cash flow	**August 2022 Update:** Clean Water for Franklin County (CWFC) has been working with various partners over the last year to examine existing models and create new solutions to leverage private funding for more efficient clean water progress. CBO approved contracted service expenditure for FCCD to work with the University of Maryland on this financial research and solutions. CWFC has worked with stakeholders and subcommittees to choose a preferred model/organization structure and create an organization in alignment with those goals which possess the ability to work with corporate and private donations as well as apply to grants only available to non-profit organizations. Currently CWFC is in the process of securing a fiscal sponsor to secure nonprofit status for the new organization and begin private fundraising for clean water progress. **August 2021 Update:** New item added during 2021 two-year milestone update.	**August 2021:** This new item was added to describe both the opportunities and challenges that exist regarding private funding to fill existing funding gaps as we proceed in 2022-2023.
1.3.c	**Capacity Building – *Funding Solutions*** ***Explore mitigation banking in Southcentral PA (Potomac Rivershed).***	***Potential Targets*** • Establish connections with needed partners • ***Information needed to inform decisions regarding mitigation banking in Southcentral PA***	***Potential Partners*** • DCNR • DEP • NRCS • EPA • USFWS • USACOE • PAFBC • PA Game Commission • Private sector mitigation professionals	Southcentral Pennsylvania (Potomac Rivershed)	2023	• Interagency • Timeline • Is there direct benefit to County for scaling up CAP effort? (i.e. Increased funding opportunities)	Existing models & examples of other stream mitigation bank systems Existing contact & partnership with consultants experienced in this topic Potential sites in Franklin Co. to implement a mitigation bank site	TBD – Currently None	Technical assistance & consultation from mitigation bank experts	TBD – Flexible & sufficient funding	**August 2022 Update:** This item has been explored, but minimally discussed. Due to capacity limitations, 1.3.b funding solution has been prioritized, though we still have interest in 1.3.c in the future. **August 2021 Update:** New item added during 2021 two-year milestone update.	**August 2021:** This new item was added to describe both the opportunities and challenges that exist regarding private funding to fill existing funding gaps as we proceed in 2022-2023. We are exploring mitigation banking as a funding solution due to its source of funds – private sector. Private sector funds open up doors to additional funding we aren't as easily able to access for project implementation or even as source of match.

1.4*	**Municipal sector –** • Establish a coordinated approach to stormwater management planning on the watershed or county level (Act 167). • Create a systematic process and **database for inventorying stormwater management practices and facilities in MS4 and non-MS4 municipalities which could be stored in central county database.** (Portion of Item coincides with 1.2)	***Potential Targets*** • Evaluation of stormwater management rules and regulation at state, county and local level - examine existing inventory and database systems in municipalities operating under MS4 Permits • Receive cost estimates for countywide inventory • Capture unreported BMPs on the ground for import into central database	***Potential Partners*** • Multi-municipal coordinating structure • Look at possibility of utilizing COG structure or another forum	Countywide	Ongoing	• Stormwater planning best at a watershed (or higher) level • Coordination between local governments, disagreement on structure • Identifying "owner" of multi-municipal data (lead entity) • How will financial responsibility and authority of structure be defined	COG (not a technical resource per se, but an existing multi-municipal group) Potentially – UMD Environmental Finance Center Other county models of multi-municipal MS4 structures	Potentially - Technical Assistance grants No other financial resources available	Technical assistance to develop consistent structure Personnel dedicated to managing and troubleshooting new structure (stormwater coordinator and technical assistance) Written guidance, contracts, and agreements regarding new multimunici-pal structure	Funds for technical resources needed, structure development, and staffing	**August 2022 Update:** This item remains <u>on hold</u>. A portion of this item relates to item 1.2 and will be addressed as an additional item to 1.2. Conversations will resume when a central county database is better established. There are also logistics to be discussed on multi-municipal coordination to plan/manage stormwater at a watershed or county level. **August 2021 Update:** We changed this item to red as it has been <u>on hold</u>. A portion of this item relates to item 1.2 and will be addressed as an additional item to 1.2. Conversations will resume when a central county database is better established. There are also logistics to be discussed on multi-municipal coordination to plan/manage stormwater at a watershed or county level.	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits or updates to potential resources that may now be available to our county through 2022-2023 that were not identified in the original plan.
1.5	**Municipal sector –** Evaluate feasibility of multimunicipal stormwater entity to implement stormwater management practices on a regional scale.	***Potential Targets*** • ***Coordinate meeting to assess interest and establish guidelines*** • ***Research collaborative models from other counties*** • Develop guidelines for implementation and ordinances for adoption	TBD – municipalities and funding structure will first need to be determined	Open to countywide participation	Initial meeting to Discuss – 2022	• Coordination between local governments, disagreement on structure • Identifying "owner" of multi-municipal data (lead entity) • Roles and responsibilities of program administration	COG (not a technical resource per se, but an existing multi-municipal group) Potentially – UMD EFC Other county models of multi-municipal MS4 structures	Potentially - Technical Assistance grants No other financial resources available	Technical assistance to develop consistent structure Personnel dedicated to managing new structure (stormwater coordinator) Written guidance, contracts, and agreements regarding new multimunici pal structure	Funds for technical resources needed, structure development, and staffing	**August 2022 Update:** FCCD/CWFC worked with consultants to hold a regional partner stakeholder meeting about watershed-scale project planning in FCo. Many regional and municipal partners attended, and a list of mutually-beneficial projects was created. While we still have not created a multi-municipal stormwater entity, though we still hope to, we are very pleased with the trajectory of this new watershed planning effort and new partners as a result. We anticipate many of these projects will showcase the benefits of this collaborative method in the coming years. Additionally, we have been working with DEP's TMDL office to develop an ARP for another watershed planning approach in Franklin County and plan to compare/contrast the various watershed planning approaches.	**(Existing item altered during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits or updates to potential resources that may now be available through 2022-2023 to our county that were not identified in the original plan.

											August 2021 Update: We changed this item to yellow as it has been <u>on hold</u>. Before placing on hold, other counties' collaborative models were researched. With COVID-19 over the past year, municipalities have had many pressing topics to discuss. There are logistics to be discussed on multi-municipal coordination to plan/manage stormwater at a watershed or county level before actions can be taken to move forward. Coordinator has begun creating relationships with the municipalities, and will resume this item when the municipalities can meet to discuss this topic.	

1.6.a	**Data Collection and Prioritization –** Assess current state of water quality in local water. Use data to better prioritize watersheds and make larger-scale project decisions. **ACTION OPTIONS:** **1.** Install USGS 15-minute nitrate sensing monitors through partnership program at the county level, organized by the state to cover all Chesapeake Bay counties. **2.** Install USGS 15-minute nitrate-sensing monitors through partnership program at the regional, county, or local level, organized by the applicable regional partner, counties, or municipalities.	***Potential Targets*** • Approved criteria for data collection method & parameters • Written contract outlining data acceptance into CAST (given that approved method is applied) • # of participants in meetings regarding data collection • # of entities or individuals who agree to participate or "pledge" to contribute	***Potential Partners*** For option **1.** • State DEP • Federal EPA or CAST Data Input Team • County • FCCD • USGS For option **2.** • State DEP • Federal EPA or CAST Data Input Team • ***County*** • ***FCCD*** • ***Municipalities*** • ***USGS*** • Ches. Bay Groups • PSU Extension	For option **1.** • Statewide effort (installing monitors only where data is lacking) For option **2.** • Regional, County, or Local level	• Effort coordinated – 2022 • Effort funded & begin collection - 2023	• Funding • Ensuring that data is accepted by & will be used in future CAST models • Education & outreach regarding collection process and effort	Existing models to aid decision making – proven system in other states (using YSI monitoring technology) Existing, successful USGS partnerships with other county entities USGS technical assistance & equipment maintenanc e (using partnership program)	Potential local entity funding USGS cost-share contribution	Tier 1 status data Accredited lab to test data Official DEP training to ensure data collection is Tier 1 status Signed & approved DEP/EPA Quality Assurance Plan Monitors	Sufficient funds needed for installation, collection effort & maintenance	**August 2022 Update:** Conversations with necessary partners continue. Locations and game plan have been chosen for at least 2 monitoring stations. Progress remains halted by lack of funds to install/implement monitors. Funding that allows equipment and partnership maintenance as an expense would allow forward motion on this item. **August 2021 Update:** New item added during 2021 two-year milestone update. **NOTE:** To begin this process, Franklin County had observed water quality study performed by the International Commission of the Potomac River Basin (ICPRB). This study was performed due to a large request of "observed" water quality data. Results of study revealed that while at one time, much water quality data was being collected, that it is neither recent nor consistent.	**August 2021:** This is a new item added to address the results of the study that the county had performed in 2020 (see NOTE in the Annual Progress column). Due to the results of this study, Franklin Co. researched various methods of collecting data, and stakeholders came to the conclusion of a proposed 2-part system. This 2-part system would allow capture of an overall picture, with **1.6.a** USGS stations, collecting "bigger picture" data (82.5% of county acreage and county streams, including 75% of county impaired streams) to prioritize watersheds based on more current data. **1.6.b** volunteer monitoring, will be used to pinpoint high loading areas in those watersheds to help prioritize BMP implementation.

1.6.b	**Data Collection and Prioritization –** Use analysis and large-scale data to better prioritize local data collection within prioritized watersheds for prioritizing BMP implementation.	***Potential Targets*** • Approved criteria for data collection method & parameters • Written contract outlining data acceptance into CAST (given that approved method is applied) • # of participants in meetings regarding data collection • # of monitors or test sites • # of individuals who join the group leading local collection effort - PSU Master Watershed Stewards (MWS) Program • # of volunteers	***Potential Partners*** • ***Local Colleges & Universities*** • ***PSU MWS*** • ***SMP*** • ***Watershed Associations*** • ***ALLARM*** • State DEP • Federal EPA or CAST Data Input Team • County • ***FCCD*** • ***USGS***	Countywide, testing where need is determined based on **1.6.a**	• Effort coordinated – 2022 • Effort funded & begin collection - 2023	• Funding • Ensuring that data is accepted by & will be used in future CAST models • Education & outreach regarding collection process and effort • Private landowner permission for local collection sites • Maintenance of equipment and data for local effort	Existing partnerships	None	Tier 1 status data Accredited lab to test data Official DEP training to ensure data collection is Tier 1 status Signed & approved DEP/EPA Quality Assurance Plan	Sufficient funds needed for collection effort & maintenance	**August 2022 Update:** Conversations with necessary partners continue. Partners have been identified and some discussions have taken place. We have marked this item yellow because progress remains halted by lack of funds and workforce to implement a large-scale manual monitoring program. Funding that allows equipment and partnership maintenance as an expense would allow forward motion on this item. **August 2021 Update:** New item added during 2021 two-year milestone update. **NOTE:** To begin this process, Franklin County had observed water quality study performed by the International Commission of the Potomac River Basin (ICPRB). This study was performed due to a large request of "observed" water quality data. Results of study revealed that while at one time, much water quality data was being collected, that it is neither recent nor consistent.	**August 2021:** This is a new item added to address the results that the county had performed in 2020 (see NOTE in the Annual Progress column). Due to the results of this study, Franklin Co. researched various methods of collecting data, and stakeholders came to the conclusion of a proposed 2-part system. This 2-part system would allow capture of an overall picture, with **1.6.a** USGS stations, collecting "bigger picture" data (82.5% of county acreage and county streams, including 75% of county impaired streams) to prioritize watersheds based on more current data. **1.6.b** volunteer monitoring, will be used to pinpoint high loading areas in those watersheds to help prioritize BMP implementation.

Franklin County Clean Water Plan - Progress and Milestones

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry	Reason for Change to Action Item (2022-2023 milestone period)
							Technical	Financial	Technical	Financial		
Priority Initiative 2: Nutrient Reduction Goals & BMP Implementation												
2.1	**Best Management Practices –** **Establish a set of BMPs that will achieve required nutrient load reductions in an efficient and cost-effective manner** **(see BMP targets)**	***Potential Targets*** • **Identify BMPs that may be feasible to achieve by 2025** • Stay up to date on progress using: 1. CAST credited reports 2. PK reports 3. FieldDoc reports	***Potential Partners*** • FCCD • FCPC • Local municipalities • DEP • EPA • SRBC/CAST team • Local stakeholders & organizations	Countywide	• **Targets determined 2019** • **Targets reevaluated in 2021** • Implementation by 2025	• Considerable resource limitations on municipal and private enterprise levels to collect data • Complex regulations prevent ready access to data • Cost of incentives for BMP adoption • Funding & permitting roadblocks • Timeline • Participation	Existing partnerships	Grant & funding programs	Trained engineering & technical staff to oversee, design, install and maintain BMP initiatives Staff to educate, coordinate and implement	Sufficient funds needed to implement BMPs Maintenance, inspections & re-verification Initial 2019 estimate $15,000,000 for Ag BMPs with possible another $10,000,000 for additional waste management Initial 2019 estimate $4,500,000 for municipal sector BMPs	**August 2022 Update:** FCCD continues to be a key player in new BMP Implementation while the BMP Verification Partnership works to submit for continued credit of existing, creditable practices. Please see attached BMP Chart for Estimated Progress. **August 2021 Update:** FCCD, a CWFC Partner, has continued with their proactive approach and have been very successful with matching landowners to funding over the last year. The list of BMP goals, created in 2019, has been distributed all throughout the county, creating project lists of landowners for these BMPs. Other entities have also pursued their own funding avenues for projects that fall within the scope of our BMP goals. \n “on hold” (due to funding). FCCD was successful in securing significant funding in 2020 to complete as many of these projects as possible in 2021. FCCD continues to strive for “a steady stream of funds” moving forward.	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits or updates to potential targets, challenges, or resources that are now identified as we proceed through 2022-2023 that were not in the original plan.

Franklin County Clean Water Plan - Progress and Milestones

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry	Reason for Change to Action Item (2022-2023 milestone period)
							Technical	Financial	Technical	Financial		
2.2*	**BMP Programs & Policies –** • ***Evaluate current system of incentives*** & penalties for BMPs and define enhanced incentive program for BMPs with greatest impact on nutrient loads to get landowner buy in. • Revise model ordinances to reflect current pollution reduction targets and BMPs. • Develop incentive programs for voluntary adoption of BMPs in developed areas and consider an offset program for implementation of high-impact BMPs in agricultural areas.	***Potential Targets*** • ***Review overall impact of existing programs & evaluate feedback*** • ***Stakeholder meetings with locals about programs they would benefit from*** • Consult with communities, particularly those under MS4 regulations, to develop model ordinances that address nutrient, sediment, and stormwater management • Expand "Be the Solution" series and stakeholder meetings to broaden understanding of ordinance needs and the application of BMPs	***Potential Partners*** • EPA • DEP • USDA • FCPC • FCCD • PSU Extension • SMP • Farm Bureau • Municipalities • Other local partners & stakeholders	Compare County vs. Regional	• Partnership connection & research – 2022 • Draft incentive program structure - 2022 • Development and distribution of ordinances for comment and/or adoption – 2023	• Program participation • Ordinance adoption & resident resistance • BMP post-installation maintenance • Start-up costs for new practices • Funding eligibility • Inter-agency	Existing partnerships Existing models Multi-municipal group (COG)	TBD	Technical assistance to develop new ordinances and framework for new programs Staffing Program administra-tion	TBD – Flexible & sufficient funding	**August 2022 Update:** 1 Franklin County municipality continues to implement their Stormwater Utility fee and has even updated their program to be more effective for stakeholders. No other progress to report regarding incentivizing BMP Implementation or penalizing lack-there-of. Franklin County has had no shortage of clean water projects to implement and has therefore determined this item to be lower priority than other items in the plan. Encouragement in the form of technical assistance has been enough incentive for partners to move forward with projects to date. Additional incentives would encourage even more progress. **August 2021 Update:** Since the 2020 update, the current system of incentives has been evaluated by groups of stakeholders. We have been discussing programs that other counties facilitate that may work in Franklin County as well. This item is still in the exploration phase, but we have gathered the overall needs into 4 groups, described in the sub-items below (**2.2a-d**).	**(Existing 2019 Plan items 2.2 & 2.7 combined/altered during 2021 two-year milestone update.)** **August 2021:** This item existed in the previous version of the plan **(and is a combination of former items 2.2 and 2.7)**. Targets, partners, challenges, and resources have been reevaluated and identified to assist with implementation through 2022-2023. An additional action item was added to the description to expand potential opportunities surrounding the original item phrase, "evaluate current system of incentives…" regarding "BMP Programs & Policies".

Franklin County Clean Water Plan - Progress and Milestones

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry	Reason for Change to Action Item (2022-2023 milestone period)
							Technical	Financial	Technical	Financial		
2.2.a	**BMP Incentive & Assistance Programs – Developed/MS4** • BMP incentive for MS4 communities. Incentives such as tax credits or impervious fee discounts for developers, organizations, commercial sector, etc. willing to implement BMPs additional to those required by stormwater protection plans. • Incentivize land & business owners at county level to report non-reported BMPs.	***Potential Targets*** • # of stakeholder meetings and interest • Draft written program outline • # of municipalities participating	***Potential Partners*** • County • COG & Municipal Leaders • Funders • Capital RC&D • SMP	Compare County vs. Municipal	• Partnership connection & research – 2022 • Draft program structure - 2023	• Bidding requirements for implementation • On-site land availability • Funding eligibility • Inter-agency	Existing local fee structures	Potential local entity funding	Program structure (contracts & agreements) Technical Assistance (consultants) Fee structure assistance for some municipalities	Flexible & sufficient funding	**August 2022 Update:** Franklin County has had no shortage of clean water projects to implement and has therefore determined this item to be lower priority than other items in the plan. Encouragement in the form of technical assistance has been enough incentive for partners to move forward with projects to date. Additional incentives would encourage even more progress. **August 2021 Update:** New item added during 2021 two-year milestone update. **NOTE:** Identified need to incentivize new construction projects to implement BMPs additional to those required. Could potentially model this program off of an existing tax credit program or fee structure discount program. Could be implemented at local level using local ordinances (fee & discount structure).	**August 2021:** This is a new item added as a sub-item of the existing **2.2**. We decided to identify opportunities regarding BMP Programs and Policies in 4 categories with targets, partners, challenges, and resources identified for each "BMP group". This specific sub-group was added to look further throughout 2022-2023 at ways to encourage the developed sector and MS4 areas to implement more than what is required of them.

Franklin County Clean Water Plan - Progress and Milestones

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry	Reason for Change to Action Item (2022-2023 milestone period)
							Technical	Financial	Technical	Financial		
2.2.b	**BMP Incentive & Assistance Programs – Advanced Nutrient Management** Advanced nutrient management BMP program at county level that includes incentive or cost-share for plan development, pre-sidedress nitrogen testing (PSNT), and other nutrient management planning technologies.	***Potential Targets*** • # of plans on current waitlists • Organizational structure & framework • Draft written program outline • # of stakeholder meetings and interest • # of acres reported and/or N reduced • # of attendees at outreach event	***Potential Partners*** • FCCD • PSU Extension • SMP • Capital RC&D • Industry Professionals • 4R • Stroud Water Research • CBF • Farm Bureau	Compare County vs. Regional	• Partnership connection & research – 2022 • Draft program structure - 2023	• Weed management • Funding eligibility • Convenient and cost-effective for landowner • Administration capacity for soil testing	Green seeker technology at PSU Extension Existing models for pre-side dress testing program On-going 4R research Existing partnerships	TBD – Currently None	Staff (workforce capacity)	Flexible & sufficient funding	**August 2022 Update:** Franklin County has had no shortage of clean water projects to implement and has therefore determined this item to be lower priority than other items in the plan. Encouragement in the form of technical assistance has been enough incentive for partners to move forward with projects to date. Additional incentives would encourage even more progress. **August 2021 Update:** New item added during 2021 two-year milestone update. **NOTE:** Identified need to incentive landowners to implement practices that are unconventional to their previous operation management (to try something new) on at least a portion of the operation. Could potentially model this program off of FCCD's streamside grass buffer. Incentive amount would be determined based on soil testing and amount of land enrolled into program.	**August 2021:** This is a new item added as a sub-item of the existing **2.2**. We decided to identify opportunities regarding BMP Programs and Policies in 4 categories with targets, partners, challenges, and resources identified for each "BMP group". This specific sub-group was added to look further throughout 2022-2023 at ways to assist and encourage the ag community in increasing the rate of implementation of ag BMPs. This sub-item aims to further delve into ways to encourage advanced nutrient management throughout the county.

Franklin County Clean Water Plan - Progress and Milestones

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry	Reason for Change to Action Item (2022-2023 milestone period)
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2.2.c	**BMP Incentive & Assistance Programs – Ag Erosion & Sediment Control** • County level incentive program for cover crops, residue tillage, grassed waterway, and other erosion control BMP implementation for soil protection. • Secure long-term funding for FCCD grass buffer program	***Potential Targets*** • Organizational structure & framework • Draft written program outline • # of stakeholder meetings and interest • # of acres reported and/or N reduced • # of attendees at outreach event	***Potential Partners*** • FCCD • PSU Extension • SMP • Capital RC&D • Industry professionals • PA No-Till Alliance • Stroud Water Research • CBF • Farm Bureau	Compare County vs. Regional	• Partnership connection & research – 2022 • Draft program structure - 2023	• Weed management • Funding eligibility • Convenient and cost-effective for landowner	Existing models	TBD – Currently None	Technical Assistance (consultants) Staff (workforce capacity)	Flexible & sufficient funding	**August 2022 Update:** Franklin County has had no shortage of clean water projects to implement and has therefore determined this item to be lower priority than other items in the plan. Encouragement in the form of technical assistance has been enough incentive for partners to move forward with projects to date. Additional incentives would encourage even more progress. **August 2021 Update:** New item added during 2021 two-year milestone update. **NOTE:** Identified need to incentive landowners to implement practices that are unconventional to their previous operation management (to try something new) on at least a portion of the operation. Could potentially model this program off of FCCD's streamside grass buffer. Incentive amount would be determined by amount of land enrolled into program.	**August 2021:** This is a new item added as a sub-item of the existing **2.2**. We decided to identify opportunities regarding BMP Programs and Policies in 4 categories with targets, partners, challenges, and resources identified for each "BMP group". This specific sub-group was added to look further throughout 2022-2023 at ways to assist and encourage the ag community in increasing the rate of implementation of ag BMPs. This sub-item aims to further delve into ways to encourage agricultural erosion and sediment control throughout the county, including buffer implementation.

Franklin County Clean Water Plan - Progress and Milestones

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2.2.d	**BMP Incentive & Assistance Programs – Streamlined Stream Restoration** ***Explore solutions to the timing roadblock regarding funding/permitting for stream restoration projects.***	***Potential Targets*** • ***Establish connections with needed partners*** • Information needed to implement solutions for this issue	***Potential Partners*** • ***Conservation Districts*** • DEP • ***Municipalities*** • County • Funders • Private Consultants • USFWS • ***Trout Unlimited*** • Stroud Water Research • ***Western PA Conservancy*** • ***PFBC***	Statewide (permits involved)	• ***Partnership connection & research – 2022*** • ***Solution discussions 2023***	• Proposing changes to a large, existing system • Programmatic and regulatory challenges	TBD – Currently None	TBD – Currently None	TBD	Flexible & sufficient funding	**August 2022 Update:** CWFC and FCCD have partnered with the Western PA Conservancy (WPC) and PA Fish and Boat Commission (PFBC) to test a new partnership/capacity building initiative that encourages the expansion of a "Streamlined Stream Restoration" process from northern PA to southcentral PA. (As well as a similar partnership with Trout Unlimited). This partnership was piloted using CAP funds awarded to FCCD for the restoration of Paddy Run. FCCD entered an agreement with WPC in which FCCD budgeted the award to WPC to coordinate & manage the entire project (including permitting assistance, bid process, material orders, landowner agreements, contractor coordination, create planting plan, complete planting, etc.) which frees up FCCD to continue coordination of more new projects. This project was extremely efficient in use of time, funding (only 50% of budgeted cost), and human resources, and FCCD & CWFC plan to continue this partnership. Currently, the only hold up moving forward is the number of technical service providers (PFBC/Trout Unlimited staff) available to complete projects, limiting FCCD to use of this partnership mechanism for only 2 projects per summer. FCCD currently has a line of at least 10 projects that would be ready to	**August 2021:** This is a new item added as a sub-item of the existing **2.2**. We decided to identify opportunities regarding BMP Programs and Policies in 4 categories with targets, partners, challenges, and resources identified for each "BMP group". This specific sub-group was added to look further throughout 2022-2023 at ways to assist and encourage landowners in increasing the rate at which they restore stream reaches. We continue to have many landowners interested in conservation practice, but sometimes lose interest or move on while they are on hold for funding or a permit.

Franklin County Clean Water Plan - Progress and Milestones

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							Technical	Financial	Technical	Financial		
											be completed by next summer if there were more PFBC/Trout Unlimited staff to execute them. We hope to see more investment in these types of partnerships from the incoming clean water investments in the coming years. **August 2021 Update:** New item added during 2021 two-year milestone update. **NOTE:** Identified need for a system that expedites permits required for funding application timelines. Identified need for 100% cost-share for restoration projects or more flexible options for eligible match.	
2.3	**BMP Prioritization –** • **Identify key watershed areas for installation of BMPs with greatest net effect.** • Identify key parcels for installation of BMPs with greatest net effect. • **Define priority areas for riparian buffers.**	***Potential Targets*** • **GIS mapping &** inventory **of priority riparian buffer installation areas** • **Identify targeted funding for prioritized installations *(ongoing)*** • # of landowners reached • # of watershed group buffer plantings • Assessment of existing buffers &	***Potential Partners*** • FCCD • FCo. GIS • PSU Extension • SHIP CLUS • CBF • TNC • Local watershed groups • Local municipalities	Countywide	• **ID Key watersheds – 2020** • **Buffer opportunity GIS layer – 2020** • Existing buffer inventory – 2023 • GIS priority parcel analysis – 2022 • Begin monitoring BMP effectiveness through water quality monitors – 2023	• Land taken out of production for some BMPs • Landowner participation & incentive • Personnel to conduct parcel prioritization analysis • **Staff needed to coordinate outreach**	Existing partnerships Buffer opportunity GIS layer (as of 2020) Coordinator (as of 2020) GIS software in-house (as of 2020)	ESRI Conservation Program (for GIS software) Coordinator funding	Personnel dedicated to outreach & coordination efforts Trained staff for data monitoring equipment Time, staff, or contractor funds to dedicate to GIS parcel prioritization analysis	TBD – Flexible & sufficient funding	**August 2022 Update:** FCCD staff and CWFC partners have been working to explore priority watersheds in a "Boots on the Ground" effort to find the most-needed implementation around the county. Now that we have broken into some of these communities with our outreach and word of mouth, we have had an increase in interested from landowners, hoping we will come evaluate their properties as well. We have plans to continue this momentum, and work tirelessly to keep up with the number of projects as a result. **August 2021 Update:** FCCD staff and additional CWFC Partners continue to work with landowners interested in stream related projects to also assess	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item existed in the previous version of the plan. Targets, partners, challenges, timeline, and resources have been reevaluated and identified. Team is working with Ag industry professionals to engage farmers in BMP education and installation through a grant. The purpose of this effort is to equip the professionals to provide large scale outreach to farmers about the Clean Water Plan and BMPs that could improve both their operation and water quality. Partners are also planning future outreach events in these

Franklin County Clean Water Plan - Progress and Milestones

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		maintenance needs • Establish stream monitoring to assist in determining priority area and to document impact of installation of BMPs *(See items **1.6.a** & **1.6.b**)*	• Monitoring will identify priority area and document water quality needs & improvements related to BMP installation - may find additional partner needs *(See items **1.6.a** & **1.6.b**)*								buffer suitability within their riparian zones. Franklin County also recently established the PSU Master Watershed Stewards program who also plan to work with landowners in this capacity. We continue to reference our identified priority watersheds for project and outreach planning for the upcoming year of funding.	watersheds throughout 2022-2023. Considering partners to perform remaining analysis piece of this item: "Identify key parcels for installation of BMPs with greatest net effect."
2.4	**Program Data Management & Project Planning –** Prepare GIS database of proposed installation of all BMPs in BMP Targets Plan.	***Potential Targets*** • Map all existing BMPs and proposed BMPs in project planning software to aid in planning purposes *(See item **1.2**)* • Provides ongoing data/benchmark	***Potential Partners*** • FCCD • FCo. GIS • PSU Extension • SHIP CLUS • CBF • TNC • Local watershed groups • Local municipalities	Countywide	2023	• Inter-agency • Right-to-know • Database management • Participation of community – awareness of ALL BMPs	Potential software Personnel to create database & perform BMP placement analysis	TBD – Currently none	Personnel dedicated to database management	TBD – Flexible & sufficient funding	**August 2022 Update:** Discussions with local universities have occurred on this partnership for this item, but there is no significant update to report on this item. This item has been on the backburner as it is been determined to be lower priority than other initiatives. **August 2021 Update:** We are considering working with a local partner to assess Potential BMP Placement. (See ***Potential Partners*** to the left for considerations.)	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** Item has been updated to reflect opportunities that now exist and can be utilized to move forward in 2022-2023 with tangible and identified partners, targets, resources available, and resources still needed.

Franklin County Clean Water Plan - Progress and Milestones

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2.5*	**Commercial & Residential Fertilizer –** Implement an efficient documentation program to track commercial & homeowner nutrient applications on developed land.	***Potential Targets*** • **Provide support for current fertilizer legislation** • Conduct education event for commercial landscape industry and homeowners • Identify acreage for urban nutrient management plans	***Potential Partners*** • DEP • Landscape industry & organization • Non-profits	Statewide	2020	• Contingent upon legislation • Reliant among industry	CAST analysis (see notes) Pass state legislation	TBD – Currently none	TBD	TBD – Flexible & sufficient funding	**August 2022 Update:** A version of legislation was passed regarding this item. This will remain on hold until the Steering Committee is able to determine next steps based upon approved legislation. **August 2021 Update:** No update to this item until legislation is passed. **11/25/2020 Update:** See details to the left. This item is dependent upon a bill which has not yet been passed. Therefore, we are not yet able to take any action on this item. **NOTE from 2019 Plan:** Commercial and home use of nutrients should be evaluated in the CAST model, more data is needed on what application levels are currently.	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits.
2.6	**BMP Programs & Policies –** Evaluate feasibility for establishment of ordinances on a countywide or multimunicipal scale to promote BMPs around stormwater for land use and development plans. *(relates to items **1.4**, **1.5**, & **2.2**)*	***Potential Targets*** • Research model ordinances and "Conservation by Design" • Convene municipal working group to discuss best practices • Draft incentives for establishment of ordinances at municipal level	***Potential Partners*** • FCPC • COG (local municipalities)	Countywide	Contingent upon (as they are an addition to) items **1.4**, **1.5**, & **2.2**	• Contingent upon (as they are an addition to) items **1.4**, **1.5**, & **2.2** • Inter-agency • Different local priorities	Existing ordinances to serve as models	TBD	TDB – Flexible & sufficient assistance	TBD – Flexible & sufficient funding	**August 2022 Update:** Conversations continue, but there is no significant update to report on this item at this time. Item has been on hold as it was determined to be lower priority than other initiatives. **August 2021 Update**: Potential countywide incentive options are being discussed with other FCo offices. If countywide incentives prove to be not feasible, municipal level assessment will follow. Consider utilizing tools, such as preservation easements, and include educational goals for residents which attain benefits	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits and one additional potential target identified as we proceed through 2022-2023 that were not in the original plan.

Franklin County Clean Water Plan - Progress and Milestones												
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											for reducing fertilizer use or establishing rain gardens, other BMPs.	

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3.1	**Communication –** • **Develop a communications strategy** to communicate parallel goals of county plan and local goals such as public and environmental health, economic development, and others. • **Create a communication plan that reflects positive, local focus on all materials. Focus on win-win scenarios, future of county water, and community benefit.**	***Potential Targets*** • Countywide water celebration/event – showcase all water-related groups & businesses in one place • Continue "Be the Solution" handout series – scale up distribution • Continue educational signage at local streams • Continue & scale up industry stakeholder events so trusted consultants can share with clients • Develop list of contacts for coordinator to meet with 1-1	***Potential Partners*** • FCCD • Franklin Co. • PSU Extension • Local water groups • The Institute • Local municipalities • Local schools • Local businesses • Capital RC&D • TNC • CBF • ACB • SMP • CLUS • PACD • Local Chambers • Visitor's Bureau • Community Foundation • Non-profits	Countywide	• **Communication Plan – 2020 (ongoing)** • **"Be the Solution" handout series – 2021 (ongoing)** • **Industry stakeholder meetings – 2020 (ongoing effort)** • Communication that parallels other local goals – 2022 • Water event – 2023	• Meeting and event participation • Building community trust and positive perception around Plan • Funding • Coordination & planning large events (COVID-19, time consuming, & expensive)	Handout template Existing partnerships Signage templates	TC Energy Community Grant Additional funding needs TBD	Personnel for (or funding to contract) outreach, education and coordination	TBD – Flexible & sufficient funding	**August 2022 Update:** We continue to utilize our existing communication plan and make adjustments as needed. Momentum has rapidly increased as we continue positive messaging regarding local issues around water, soil health, recreation, etc. We continue this communication through the use of our "Be the Solution" handout series that has been so well received (see our first two editions, "Ag BMPs" and "Backyard BMPs"). We also continue to utilize our message through more educational material distribution and events for local landowners (more details on events and outlets below). **August 2021 Update:** We continue to utilize our existing communication plan and make adjustments as needed. Momentum has begun to increase as we focus on local needs and priorities regarding water, soil health, recreation, etc. We plan to continue this communication through the use of our "Be the Solution" handout series that has been so well received (see our first two editions, "Ag BMPs" and "Backyard BMPs"). We also plan to continue our message through more educational material distribution and events for local landowners. Examples include stakeholder meetings, meetings with local leaders & the COG, Conservation Farm Tour, Ag Industry Meeting, etc.	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item existed in the previous version of the plan. Targets, partners, challenges, timeline, and resources have been reevaluated and identified to assist with implementation as we proceed through 2022-2023. An additional action regarding communication plan was added as were some additional timeline items to show progress to date.

Franklin County Clean Water Plan - Progress and Milestones

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3.2	**Education –** Utilize existing resources to engage educational objectives.	***Potential Targets*** • Create list of online courses, webinars & How-To videos to share on our pages • Share PSU Extension & other partners' existing resources • Share **partner list**, contact info & volunteer opportunities online	***Potential Partners*** • EPA • DEP (CWA) • ACB • CBF • FCCD • PSU Extension • Local municipalities • Educational institutions & non-profits	Countywide	• **Create** and share **partner contact list** and volunteer groups – **2020 (ongoing)** • **Create Facebook page – 2020** • **Share partners' existing resources – 2020 (ongoing)** • List of courses, webinars, & training topics to share – 2022	• Many moving parts (time & resources) to coordinate and maintain • Need willing participants	Existing templates and models to work from Existing partnerships	TC Energy Community Grant Additional funding needs TBD	Personnel for (or funding to contract) outreach, education and coordination Potential software needs	TBD – Flexible & sufficient funding	**August 2022 Update:** We continue to host tours, adult educational events with local partners such as The Institute, PSU Extension, and Tayamentasachta Environmental Center. Examples of outreach efforts this year include meetings with stakeholders, local leaders & the COG, Conservation Farm Tour, Ag Industry Meeting, Manure Expo Stream Tours, individualized outreach efforts/landowner communication, Facebook posts, and more! We also continue to utilize our Facebook and Website to share news and funding information. This year, we have created a "Partners & Stakeholders" email list where we share funding announcements and other resources & opportunities. This email list now has a "sign-up" registration form where people can register to receive email updates from CWFC. **August 2021 Update:** We have continued to utilize our Facebook and Website to share news and funding information. This year, we have created a "Partners & Stakeholders" email list where we share funding announcements and other resources & opportunities. This email list now has a "sign-up" registration form where people can register to receive email updates from CWFC. Additionally, we identified some other resources that can be shared through existing platforms, identified columns to the left.	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item existed in the previous version of the plan. Targets, partners, challenges, timeline, and resources have been reevaluated and identified to assist with implementation as we proceed through 2022-2023. Some additional timeline items were added to show progress to date.

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3.3	**Outreach –** • Develop a focused effort to promote BMPs in agricultural community. • Develop a focused effort to promote BMPs in the developed community.	***Potential Targets*** • Evaluate best way to communicate innovative practices and models • List of additional communities of practice to establish so that practitioners can share experiences and learn from others – i.e. grazing group forum • Create targeted informational materials that relate specifically to each sector • Publicly recognize existing effort in ag community – i.e. recurring recognition column in existing publication, website, or forum • Scale up outreach efforts in developed community - work with developers and residents to increase Clean Water BMPs in communities	***Potential Partners*** • EPA • DEP • USDA • FCCD • PSU Extension • 4R Alliance • Capital RC&D • Ag Community • Chesapeake Commons • SMP • TNC • Developers • HOAs • Local residents	Compare County vs. Regional	• List of possible communication avenues – 2022 • List of additional communities of practice (forums) – 2022 • **Ag specific educational materials – 2020** • List of avenues to publicly recognize ag community – 2022 • Establish regular recognition in one of the mediums determined above – 2022 • Letter template to locals to ask if they would like to be interviewed for recognition – 2022	• Many moving parts (time & resources) to coordinate and maintain • Need willing participants	Existing templates and models to work from for some items identified Existing partnerships for some items identified	TC Energy Community Grant Additional funding needs TBD	Personnel for (or funding to contract) outreach, education and coordination Potential software needs	TBD – Flexible & sufficient funding	**August 2022 Update:** CWFC continues to utilize educational handouts funded by community education grant. Additional means of outreach over the past year have included direct communcations to individual landowners, watershed by watershed, to discuss clean water issues and BMP Implementation opportunities on their property. This outreach has been conducted by partners such as municipal leaders, FCCD staff, and CRCD BMP Verification Specialists. **August 2021 Update:** CWFC received a grant in 2020 funding an educational handout to distribute at an all-day education event for the Agriculture Industry to learn about BMPs and nutrient reducing conservation practices. We plan to continue educational events with the ag community, but we are also working to duplicate this effort in the developed sector involving both educational materials and events for those living or working in the Franklin County developed sector.	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item existed in the previous version of the plan. Targets, partners, challenges, timeline, and resources have been reevaluated and identified to assist with implementation as we proceed through 2022-2023. Our team has been awarded this same grant and plans to continue outreach in the ag community *(described in items **3.1** - **3.3**)* using this funding, but it is minimal and more will be needed to truly accomplish all goals listed throughout ***Priority Initiative 3***. To continue the handout series, CWFC plans to next create a “Be the Solution” handout for the developed sector (in addition to the General Public handout created in Summer 2021). CWFC partners also mentioned wanting to begin outreach with a “Clean Water table” at existing local events such as farmers markets, and other events with large crowds of residents.

Franklin County Clean Water Plan – Programmatic Recommendations for State											2021
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Action #	**Description**	**Performance Target(s)**	**Expected Timeline**	**Potential Implementation Challenges**	**Potential Recommendations on Improvement**	**Resources Needed**				**Reason for Change to Action Item (2022-2023 milestone period)**	
						Technical	**Suggested Source**	**Financial**	**Suggested Source**		
Programmatic Initiative 1: Programmatic, Policy and Regulatory Changes											
1.1*	**Organizational Structure –** Integrate Chesapeake Bay planning efforts with county planning through dedicated personnel available to support local goal implementation and address capacity issues on a county-by-county basis.	• Organizational chart for all participating entities with roles and responsibilities developed. Share chart with county partners. • Hire state level staff • Necessary information identified for exchange reporting criteria • Schedule for reports established in data verification process manual	2022	• Integrated staff should be at DEP level but with frequent interaction in collaboration with county staff. • 2-3 staff at DEP for administration of program, and at least 1 dedicated staff person at Franklin County • Program needs to recognize and provide support for plan implementation for counties' unique needs	• Adequate staff to lead program development. • Additional staff needed to address capacity issues such as data reporting/verification, plan writing at CDs, program administration specialists, etc. Implementation efforts have increased workload at the county level. With more projects to complete on a quicker timeline, additional assistance is needed to facilitate these efforts and the capacity of this new work.	Staff will need to be hired to lead and coordinate the Plan effort.	Source: State and County part to be determined	State and local funds sufficient for staffing.	Suggested source: State/Local	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item was originally a broad idea. Since this item was created, CBO staff and coordinators have been hired & facilitating CAP effort. This item has been updated to look further into additional needs identified through implementation process.
1.2*	**Program Efficiency –** • Establish a pollution reduction policy that consolidates sediment, nutrient, and stormwater requirements into a single plan for counties within the Chesapeake Bay watershed (MS4/TMDL/WIP3 and Act 167 requirements) • Develop uniform standards and regulations for pollution reduction within the Chesapeake Bay region to decrease cross-	• Establish clear guidelines with input from local municipal levels • Gain required approvals of plan guidelines from state and federal agencies • Develop a pilot program to test guidelines within representative counties • Identify funding for plan development, requirements and metrics • Train county and municipal staff on consolidated plan requirements and implementation • Complete rollout of revised guidelines with adequate staffing support from DEP for Implementation	2023	• Currently, there are challenges with scale of implementation, with redundancy in the system, and a lack of consistency in the inspection and review process. Currently, the required plans don't communicate well with one another and the process of reworking them will be complex. • If/When the policies are established, there remain obstacles in the form of lack of staffing and funding for program implementation. Nonetheless, these recommendations are an attempt to increase and direct funding to nutrient reduction projects in the	• Institutional barriers exist to optimizing implementation of pollution reduction measures. The recommended policy changes would make it easier to fund and implement projects with the greatest nutrient reduction potential. The challenge is gaining consensus and approval from required levels of government. • We feel this process is needed to pool resources, get widespread buy in and increase efficiencies towards meeting objectives. It will encourage municipalities to think on a watershed- wide basis rather than MS4 regulated/non-MS4	Staff at state and county level	State/local	State/local	State/local	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits. Due to the scale of this request and limitations of creating a "single plan" across multiple geographies and agencies in such a short time, Franklin County has decided to find a creative, county-level solution to address this planning need in the meantime. No further action on this item is being requested of DEP at this moment in time.

	boundary inequalities • Enact a policy that allows financial resources to be targeted toward highest impact projects within regulated watersheds	• Implementation of uniform standards in Chesapeake Bay watershed counties • Review legislation on stormwater tax, examining feasibility of implementing in non-MS4 communities • Develop policy language that allows allocation of a proportion of stormwater tax funds to be spent on high priority projects within the watershed impacted by a municipality but not necessarily within that municipality's borders • Obtain necessary approvals from EPA, DEP and state legislature		highest risk area of targeted watersheds. Additionally, they are designed to decrease resentment that arises from inequitable regulations.	regulated areas.					
1.3	**Program Efficiency –** • Simplify permitting process for installation ofBMPs (DEP Water Obstruction and Encroachment and joint DEP/Army Corps of Engineers). Expedited permit process needed for any/all CAP BMP Implementation projects.	• Permit application process simplified and communicated to stakeholders • Decreased wait time for permit approvals • Improved proportionality of effort	2023	• Smaller projects currently require the same amount of effort as large-scale projects in terms of the permit requirement process. This recommendation requires reviewing and streamlining the permitting process.	• This recommendation entails evaluating Chapters 102 and 105 of the Clean Streams Act in order to evaluate proportionality and scale of projects that involve BMPs in or near streams. • Focus should be on implementing as many BMPs in the Chesapeake Bay region as possible, not on regulating large and small projects under the same permit requirements. Current process puts counties with fewer resources at a disadvantage. • Implement a multi-project permit such as a "watershed permit". Model permit process off of CAP Block Grant process to create a "Block Permit" for CAP Implementation projects, where any BMP Implementation or Enhancement Project can be included on the block permit rather than needing individual CAP BMP Implementation Project Permits.	Regulatory changes	State	State	State	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item was originally a broad idea. Since this item was created, DEP has provided an update on their permitting efforts. This item has been updated with a new recommendation of a potential solution to further address permitting needs identified through implementation process.

1.4	**Program Efficiency –** Simplify funding and grants administration for implementation of BMPs	Grants program changed to more of a targeted regional approach with anallotment of funding for each county in the Chesapeake Bay region rather than a competitive grants process between counties.	2022	Additional technical and fiscal supportneeded for funding applicants.	• Evaluate Growing Greener and othergrant programs for agricultural and other BMPs related to nutrient load reductions, and improve the process. • The administration of funding should be addressed as a centralized state agency process to reduce paperwork burdens on county level staff responsible for BMP installation and program management. Counties would be responsible for project prioritization and implementation rather than grant management and preparation of applications. • Model more funding programs off of the CAP Block Grant structure and allow more flexibility related to eligibility of costs associated with BMP implementation as other programs do (such as design). • Within CAP Block Grant program, extend contractual category 25% allocation (allowable for engineer/design cost) to include <u>all</u> project readiness costs/expenses, including but <u>not limited to</u>: preliminary studies (wetland studies, PNDIs, hydrologic & floodplain studies, etc.), permitting, etc.	Admin & regulatory changes	State	State	State	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item was originally a broad idea. Since this item was created, DEP has created the CAP Block Implementation Grant. This programmatic item has been updated with the recommendation to further build on the block grant solution to further the use of the block grant model. We would like to see more programs take on the structure of the block grant program.

1.5	**Data Collection –** Create a central state warehouse for data collection and reporting regarding implemented BMPs, county conservation plans, restoration project permits, grant applications, 4R practices, etc.	• Establish a centralized data collection and reporting system (enhancing existing systems where applicable)	2023 (ongoing) • **Note:** central warehouse is created, ongoing process continues to accomplish smooth operation	• Coordination between FCCD, NRCS, DEP, EPA, others – consistency and communication of data • Reporting system will require maintenance, updates and adequate tracking and verification • Privacy concerns about data if subject to right to know	Establish database and reporting system	Develop system, Train staff	State	State	State	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** DEP has reported progress on this item regarding the BMP Data Warehouse, and FCo. acknowledges the progress on this item as DEP continues this work. When FieldDoc and BMP Data Warehouse are all fully functional and we have transitioned to its intended use, this item will be marked complete. We ask no new actions of DEP on this item, just the continuation of work toward smooth functionality and operation of this tool.
1.6	**Capacity Building –** ***Workforce (BMP Data Collection & Verification)*** • Implement a survey process for capturing current agricultural best management practices that are unreported.	Wide scale survey to be completed by 2023	2023	• Participation • Coordination between agencies • Right-to-know	Survey needs to be standardized across the region and implemented in an organized fashion. We have heard from stakeholders that they feel they have answered surveys in the past but not certain what was done with the data.	Staffing – state & local	State	State	State	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits. DEP worked with PSU Extension to conduct a detailed survey with farmers for BMP verification. FCo. requests no further action at this time.
1.7*	**Municipal sector –** • Create a systematic process and database for inventorying stormwater management practices and facilities in MS4 and non-MS4 municipalities which could be stored in central database.	• Evaluation of stormwater management rules and regulation at state, county and local level - examine existing inventory and database systems in municipalities operating under MS4 Permits • Receive cost estimates for countywide inventory • Capture unreported BMPs on the ground for import into central database	2022	• Coordination between local governments, disagreement on structure • Identifying “owner” of multi-municipal data (lead entity) • How will financial responsibility and authority of structure be defined • Funding for inventory capture and data storage	Establish a database and reporting system	Technical assistance to develop consistent structure Personnel dedicated to managing structure - stormwater coordinator Written guidance, contracts, and agreements regarding new structure	State, local	State, local	State, local	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits. DEP has reported progress on this item regarding their rollout of the ePermitting system. FCo. acknowledges the progress on this item as DEP continues this work. When this is fully up/running, fully functional, and we have completely transitioned to the system, this item will be marked complete. We ask no new actions of DEP on this item, just the continuation of work toward smooth functionality and operation of this tool.

1.8	**Program Guidance –** Refine BMPs listed in manual and provide updated direction in implementation.	Complete BMP manual with updated practice descriptions that have greater alignment with PA agricultural practices	2020	Changing practice descriptions and credits in the model will require approval on many levels	• Many BMPs in the manual are not fully defined, particularly for a non- practitioner engaged in planning process. Many say TBA, with further definition required. • Many BMPs are Maryland-specific and not relevant to Pennsylvania practices. • Also, some practices are not given credit, but it seems that they should be given more. • Example – model assumes that commodity cover crops receive fall nutrients, and so gives less credit for these crops. Farmers state that small grain following soybeans should be credited the same as non-commodity cover crops, as they receive many nutrients from prior soybean planting. Perhaps the practice should be defined in terms of whether or not nutrients areapplied rather than whether or not they are commodity cover crops or not.	Staff to revise manual	State	State	State	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits. DEP updated that they have received no plans from the creators of the manual to make updates to this document. FCo. is still interested in the creators of the BMP Quick Reference Guide completing the "missing pieces"/TBA items of the manual.
1.9.*	**BMP Programs & Policies –** • Evaluate current system of incentives & penalties for BMPs and define enhanced incentive program for BMPs with greatest impact on nutrient loads to get landowner buy in. • Develop incentive & programs for voluntary adoption of BMPs in developed areas and consider an offset program for implementation of high-impact BMPs in agricultural areas.	• Statewide review of the overall impact of CREP, REAP, EQIP, Act 319, Growing Greener and other programs, evaluate feedback on what has or hasn't worked and communicate with local stakeholders on what new incentives are being considered	2021	• Program participation • BMP post-installation maintenance • Funding	• Cover crop practices involve costs for equipment, pest management, etc. Incentive programs should account for more than planting alone. • Remove "caps" or "maximums" per landowner from assistance & reimbursement programs to assist with as many practices as possible. Prioritize units of new BMPs over number of landowners. This will both maximize and speed up use of funds available while ensuring maximum amount of nutrients are reduced on maximum of number of acres.	Technical assistance to develop new ordinances and framework for new programs Staffing Program admin	State	State	State	**(Existing 2019 Plan item altered/added to during 2021 two-year milestone update.)** **August 2021:** This item existed in the previous version of the plan. Targets, partners, challenges, and resources have been reevaluated and identified. An additional action item was added to the description to expand potential opportunities surrounding the original item phrase, "evaluate current system of incentives…" regarding "BMP Programs & Policies".

1.10*	**Commercial & Residential Fertilizer –** Implement an efficient documentation program to track commercial & homeowner nutrient applications on developed land.	• **Provide support for current fertilizer legislation** • Conduct education event for commercial landscape industry and homeowners • Identify acreage for urban nutrient management plans	2020	• Contingent upon legislation **(If Bill doesn't pass, will not be able to implement this action.)** • Reliant among industry • Documentation and reporting are huge challenges	• Pass state legislation • CAST analysis - Commercial and home use of nutrients should be evaluated in the CAST model, more data is needed on what application levels are currently.	State lead	State	State	State	**(Existing item altered/added to during 2021 two-year milestone update.)** **August 2021:** No action changes to this item – only formatting/re-wording edits. DEP has noted they are waiting on legislation to pass to move forward on this item.

Franklin County Clean Water Plan Programmatic Recommendations

Each county-based local area will use this template to identify:

1. Inputs – The statewide policy, regulations, initiatives and programs that needed to be looked at for success in the Phase 3 WIP.

2. Process – What are the changes that need to occur for the county to be successful in the process. These are the action items listed under each priority initiative.

3. Outputs and outcomes – both short and long-term. These are the programmatic recommendations identified by each county. The performance targets are the changes that need to occur in order to meet your county goal.

4. Implementation challenges – any potential issues or roadblocks to implementation that could impede outputs and outcomes

For each Programmatic Recommendation: Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each programmatic recommendation. This is the "who, what, where, when and how" of the plan:

Description = What. This may include programs that address prevention, education, or changes to current policy and regulation. A programmatic or policy effort will allow for the completion of action items listed in the Planning and Progress Template.

Performance Target = How. This is an extension of the Description above. The Performance Target details the unique BMPs that will result from implementation of the Priority Initiative and serves as a benchmark to track progress in addressing the Priority Initiative. Performance Targets may be spread across multiple Responsible Parties, Geographies, and Timelines based on the specifics of the Initiative.

Expected Timeline = When. Provide the expected completion date for the planned programmatic change. This should be a reasonable expectation, based on knowledge and experience, and will help in the completion of your county plan.

Potential Implementation Challenges = This field will note challenges and issues that may delay program implementation (Description). This can be in relation to your county plan.

Potential Recommendations on Improvement = This field will note recommendation on how to improve or change the program (Description)

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description).